

Unit 1: Home Practice

Part 1 Variables and Values

1. **A.** David asks each of his family members what their favorite vegetable is. Is he collecting data on a numerical or categorical variable?

B. List four possible values for this variable.

2. **A.** Alexis asks her classmates how long it takes them to get to school. What variable is she studying? Is it numerical or categorical?

B. List four possible values for this variable. (*Hint:* How long does it take you to get to school? How long does it take your friends?)

3. **A.** Brandon asks his friends what type of sandwiches they are going to order at the restaurant. Is he collecting data on a numerical or categorical variable?

B. List four possible values for this variable.

Part 2 Find the Median

Find the median for each set of data given below. Show how you decided.

1. Roberto, David, Nila, Lee Yah, and Romesh compare the number of movies their families own. Roberto owns 47 movies while David only owns 4. Nila owns 23 movies, Lee Yah owns 18 movies, and Romesh owns 15 movies. What is the median number of movies? (*Hint:* First list the number of movies owned by each family in order from smallest to largest. You should list five numbers.)
2. Brandon compares five different types of basketball shoes. His favorite brand has 24 eyelets. His least favorite has 32 eyelets. Two brands have pairs of shoes with 20 eyelets. Another brand has 28 eyelets. What is the median number of eyelets? (*Hint:* List the number 20 twice since two pairs of shoes have 20 eyelets.)
3. There are seven people in Felicia's family. Four members of her family have 5 pairs of shoes. Two members of her family have 3 pairs of shoes. Her mother has 15 pairs of shoes. What is the median number of pairs of shoes in Felicia's household? What is the mode?
4. Four people in David's family celebrate birthdays in September. David buys 4 cards. The card for his mother costs \$2.25. The cards for his two brothers are \$1.25 and \$1.40. The card for his cousin is \$1.50. What is the median price of the birthday cards?
5. What is the median height in your household? How did you decide?